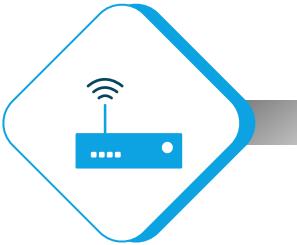
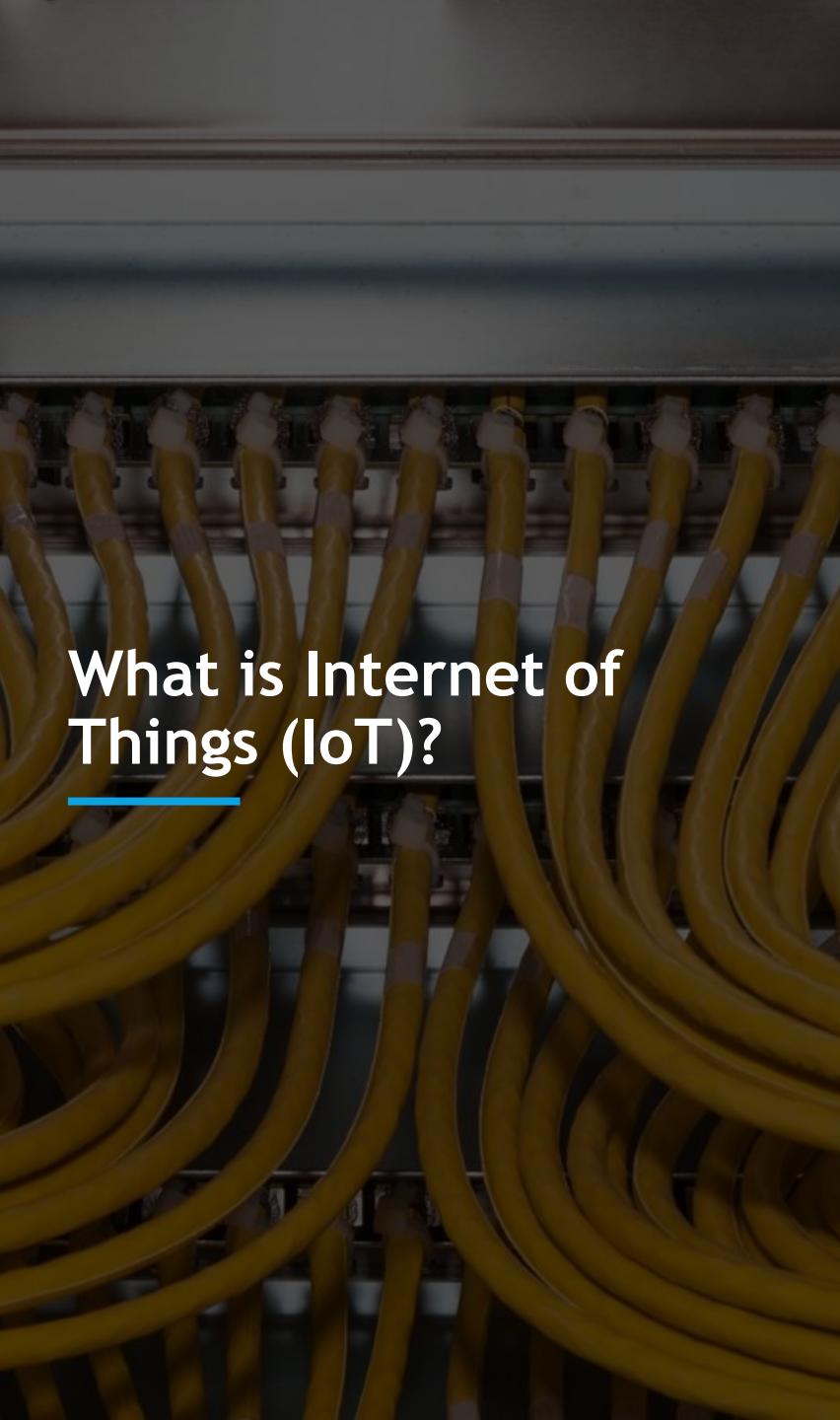


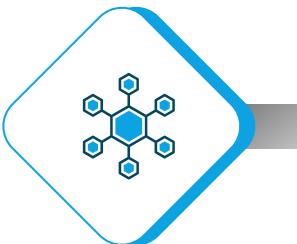


Internet of Things (IoT)

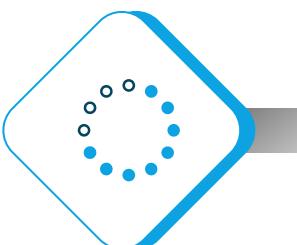
What is Internet of Things (IoT)?



BSNL's IoT is **network of connected “things”** - devices embedded with sensors, SIMs, and communication tech



IoT devices **collect real-time information and send it through networks** (often via IoT SIM cards or wireless gateways) to cloud platforms or applications



By connecting devices & gathering live data, BSNL's IoT **enables automation and smarter decision-making**



Businesses get **real-time visibility into operations & environments**, allowing them to respond instantly, optimize processes, and create new insights

IoT for Business

Why does your business need Internet of Things (IoT)? (1/2)

1



2



Real-Time Visibility & Insights

- IoT gives real-time insights into operations, assets, and supply chains
- This visibility helps detect issues early, track goods, and make fast, informed decisions

Automation & Efficiency

- IoT automates manual tasks by enabling machines to communicate and act independently
- IoT reduces errors and delays—boosting productivity, service speed, and efficiency

IoT for Business

Why does your business need Internet of Things (IoT)? (2/2)

3



Cost Reduction & Optimization

- IoT cuts costs and optimizes resource use
- Sensors predict maintenance, cut energy waste, and reduce overstock

4



Improved Customer Experience

- IoT helps deliver faster, more responsive customer service
- IoT insights help businesses innovate and deliver smoother, more engaging experiences

Today several promising IoT use cases have already been established cross industries

| |  Manufacturing |  Transport. & logistics |  Utilities |  B2C |  Healthcare |  Energy & natural resources |  Retail |  Government |  Insurance |
|----------|---|--|---|---|--|--|--|--|---|
| Use case | Self-optimizing production | Track & trace | Smart meter | Smart home - energy | Remote health monitoring | Automated mining drilling | Automated inventory management | Public transit | Usage based insurance |
| | Automated inventory management | Asset/fleet management | Demand response | Smart home - appliances | Treatment development | Precision agriculture | Real-time promotion & pricing | Traffic rerouting | Smart health insurance |
| | Predictive maintenance | Predictive maintenance | Distributed generation and storage | Smart home - Security | Predictive maintenance | Predictive maintenance | Layout optimization | Infrastructure asset management | |
| | Factory simulation | Connected car | Grid fault management | Wearables - quantify self | | Agricultural animal tagging | Smart vending machines | Smart parking | |
| | Self-driving logistics vehicles | | | Wearables - augmented reality | | | Smart energy management | Smart energy management | |
| | Augmented work | | | | | | | Public safety | |

The BSNL Advantage: Scale, Trust and Service

Over
₹5,000 Cr
in enterprise
revenue

Over
61,000
Enterprise
branches under
the Platinum
category alone

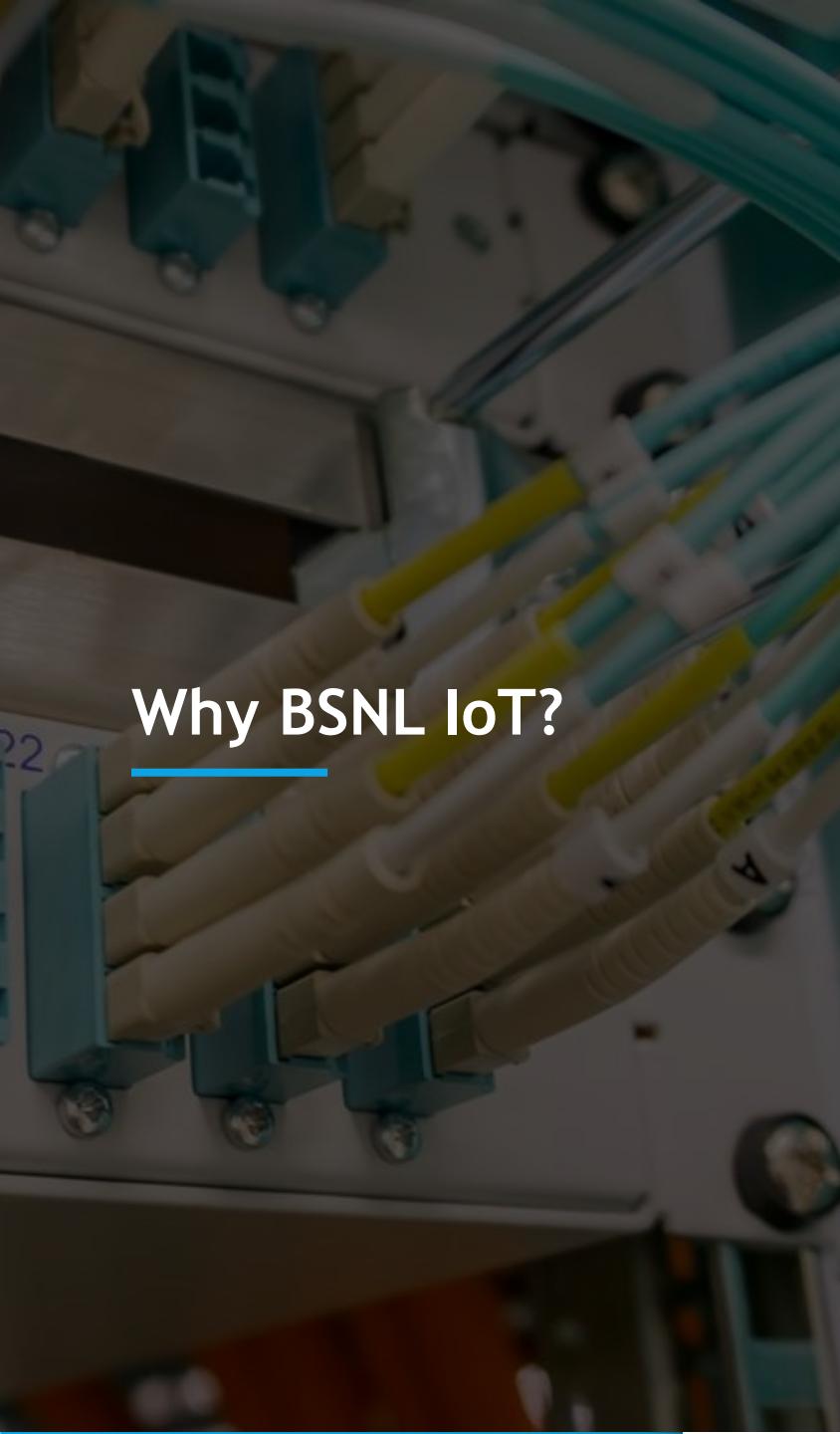
- 1 Known for Trust and transparent (1:1) billing
- 2 Reliable connectivity partner offering resilient network

Clients



Circle/ Unit specific logos to be added by the NAM/KAM
Delete this yellow box after finishing

Why BSNL IoT?



BSNL uses **premium 700 MHz spectrum** for strong signal and wide coverage in both urban and rural areas



BSNL supports NB-IoT, including the **world's first satellite-based NB-IoT network**, to connect remote devices



BSNL IoT SIMs support private APNs and use IPsec VPN tunnels for **secure data transfer**



BSNL offers dedicated support and monitoring for enterprise IoT connectivity **ensuring high availability for critical IoT applications**



BSNL offers IoT services across different industries (1/2)

- 1  Smart Cities
- 2  Utilities
- 3  Manufacturing

BSNL partners on end-to-end Smart City projects,

- AI-powered Video Surveillance
- Integrated Command & Control Centers
- Public Address Systems, e-Governance & ERP solutions

Through its strategic MOU with ECIL, BSNL provides,

- Smart Metering solutions (AMR/AMI)
- e-SCADA & remote grid monitoring
- Integrated Surveillance Systems & Cyber-Security

BSNL's IoT network powers factory digitization with,

- Automated workflows & process control
- Predictive maintenance via real-time sensor data
- Asset tracking and inventory monitoring

BSNL offers IoT services across different industries (1/2)

4



Security

5



Agriculture

6



Logistics

BSNL IoT supports advanced security use cases,

- AI-based CCTV analytics
- Automated Number-Plate & Speed Violation Detection
- Emergency Call Boxes & perimeter monitoring

With its satellite-backed network, BSNL connects,

- Soil-moisture & weather sensors for precision farming
- Livestock tracking & health monitoring
- Automated irrigation controls in remote fields

BSNL IoT fleet solutions deliver,

- Real-time vehicle tracking
- Condition monitoring in transit
- Predictive route optimization using live telemetry